FIG. 1

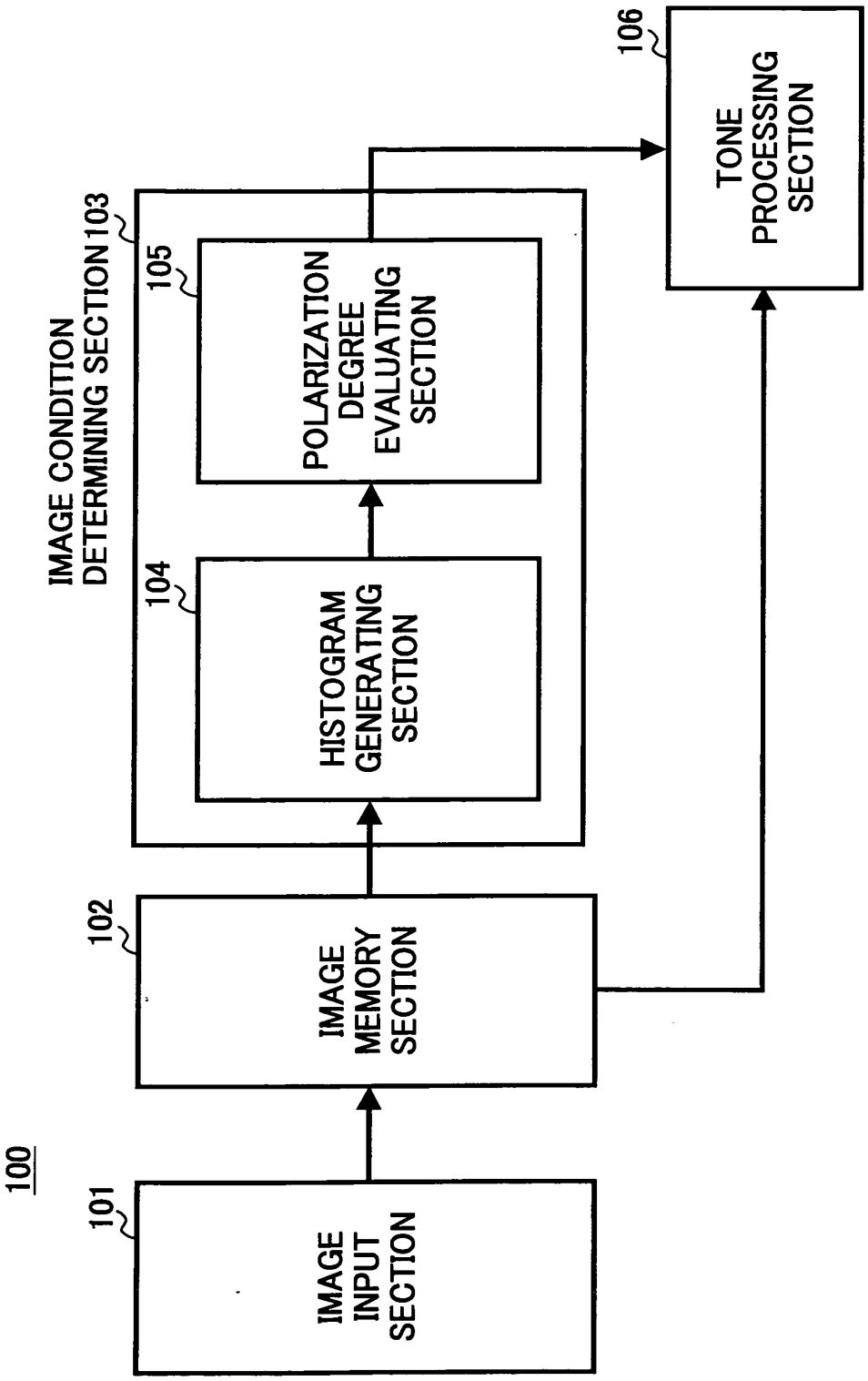

100
101
IMAGE INPUT SECTION
102
IMAGE MEMORY SECTION
IMAGE CONDITION DETERMINING SECTION 103
104
HISTOGRAM GENERATING SECTION
105
POLARIZATION DEGREE EVALUATING SECTION
106
TONE PROCESSING SECTION

FIG. 2

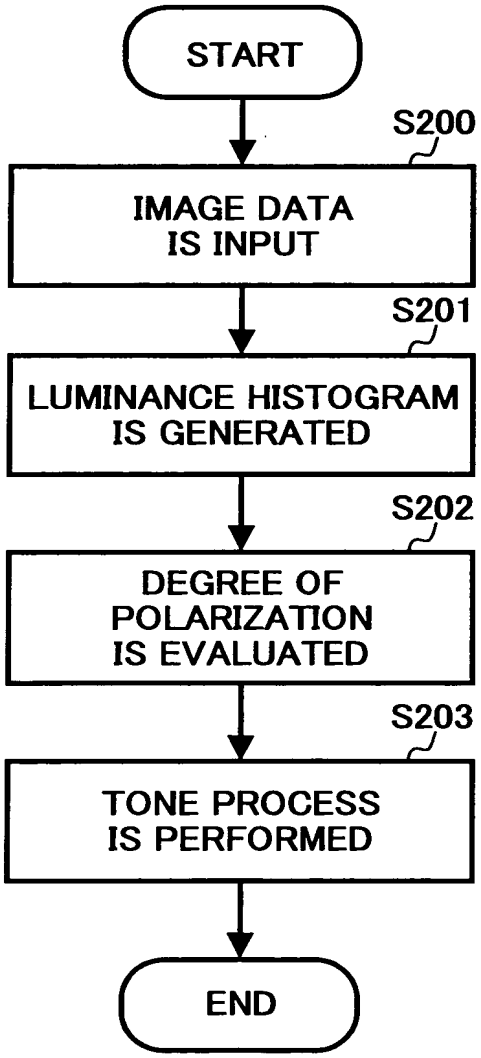

START
S200
IMAGE DATA IS INPUT
S201
LUMINANCE HISTOGRAM IS GENERATED
S202
DEGREE OF POLARIZATION IS EVALUATED
S203
TONE PROCESS IS PERFORMED
END

FIG. 3

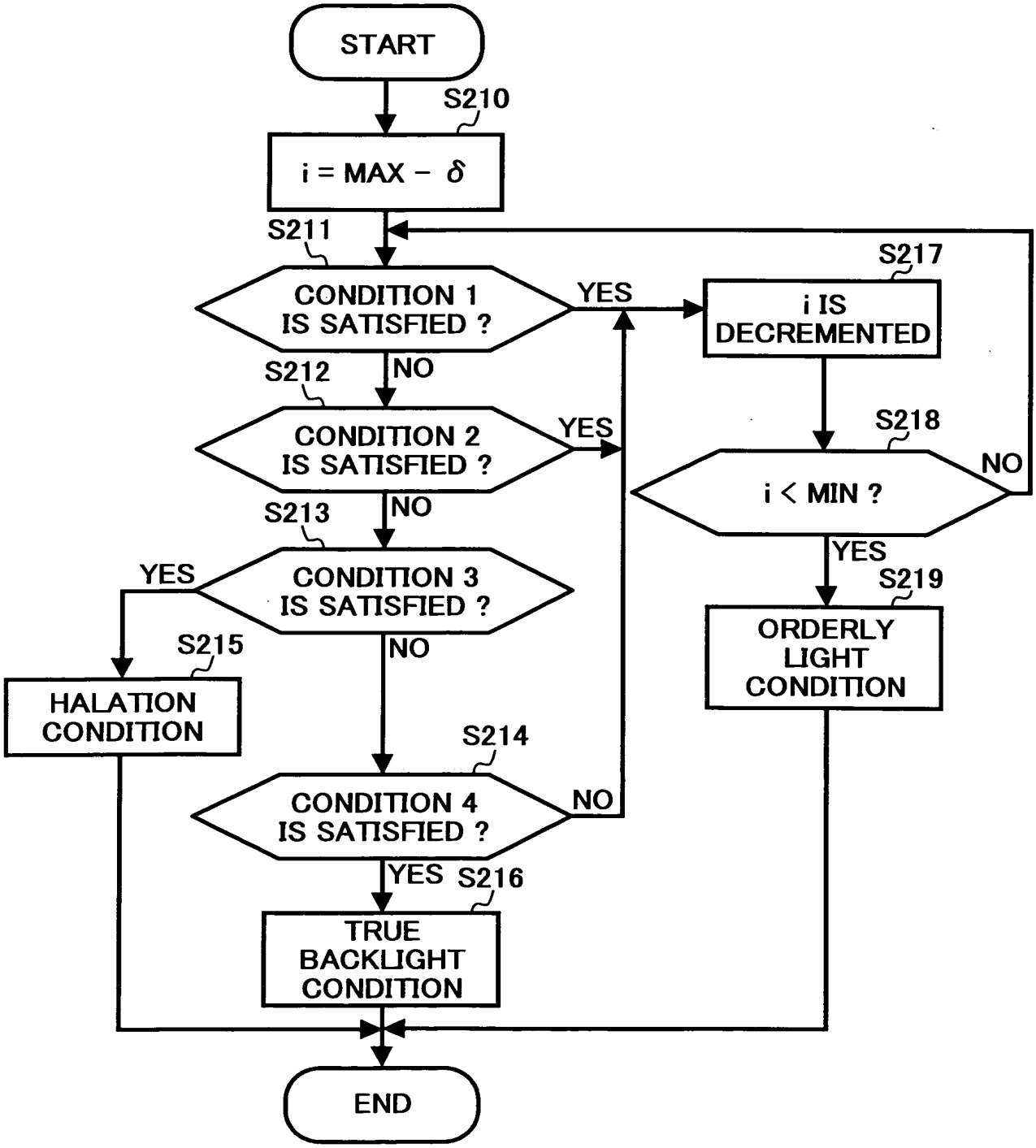

START
S210
i = MAX − δ
S211
CONDITION 1 IS SATISFIED ?
YES
S217
i IS DECREMENTED
NO
S212
CONDITION 2 IS SATISFIED ?
YES
S218
i < MIN ?
NO
NO
S213
CONDITION 3 IS SATISFIED ?
YES
YES
S219
ORDERLY LIGHT CONDITION
S215
HALATION CONDITION
NO
S214
CONDITION 4 IS SATISFIED ?
NO
YES
S216
TRUE BACKLIGHT CONDITION
END

FIG. 4

TYPICAL LUMINANCE HISTOGRAM OF
IMAGE DATA IN TRUE BACKLIGHT CONDITION

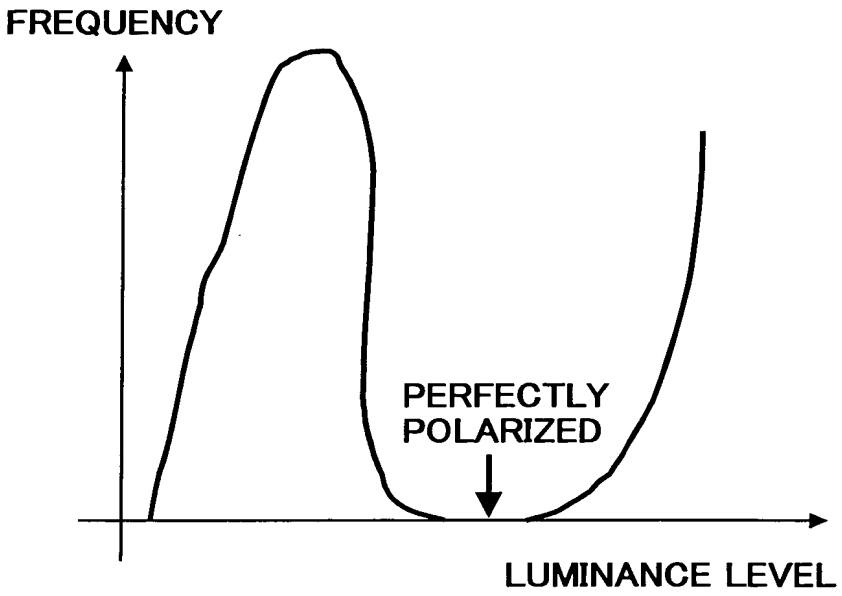


FIG. 5

TYPICAL LUMINANCE HISTOGRAM OF
IMAGE DATA IN HALATION CONDITION

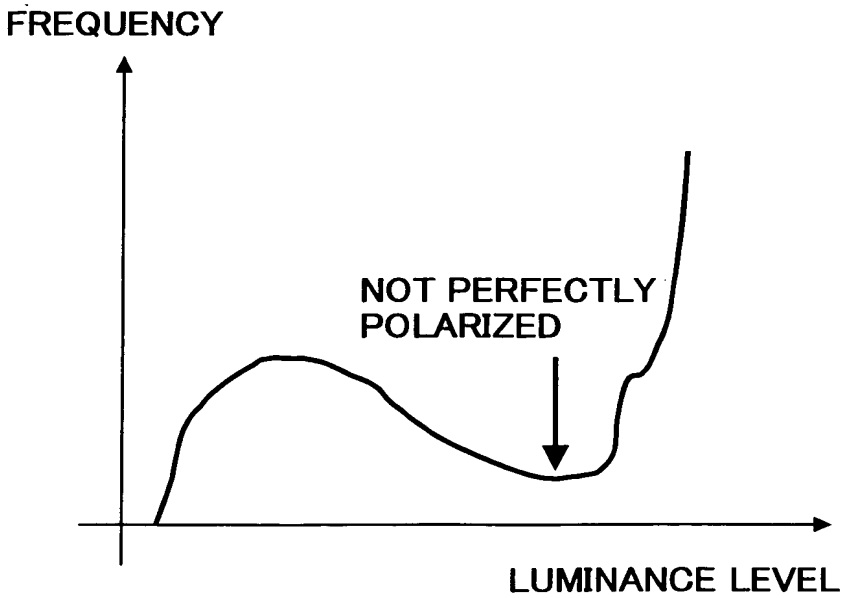


FIG. 6

IN TRUE BACKLIGHT CONDITION

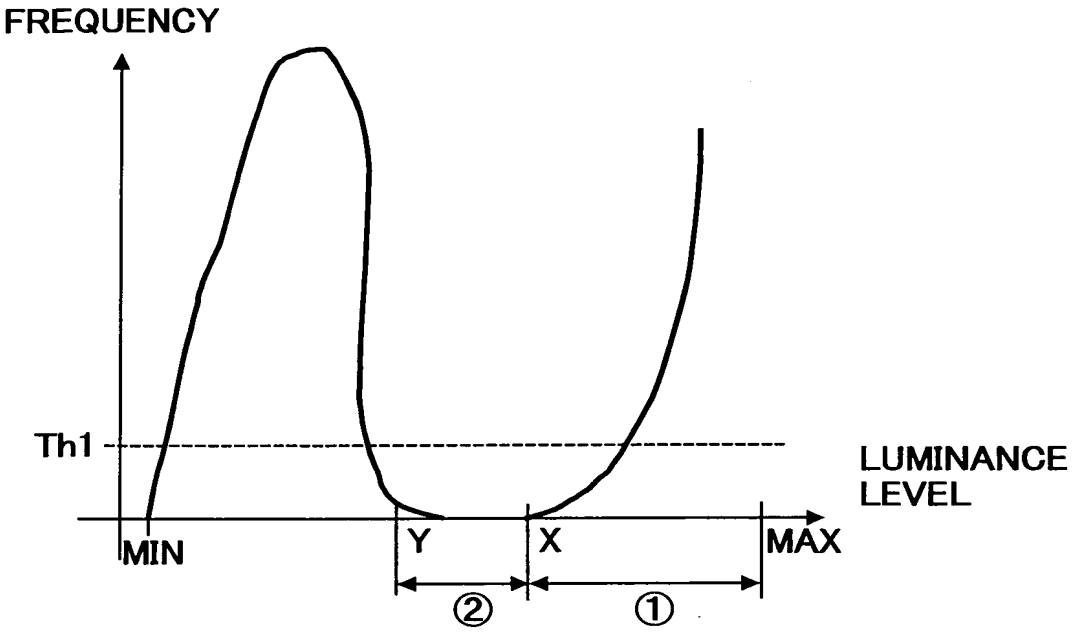


FIG. 7

IN HALATION CONDITION

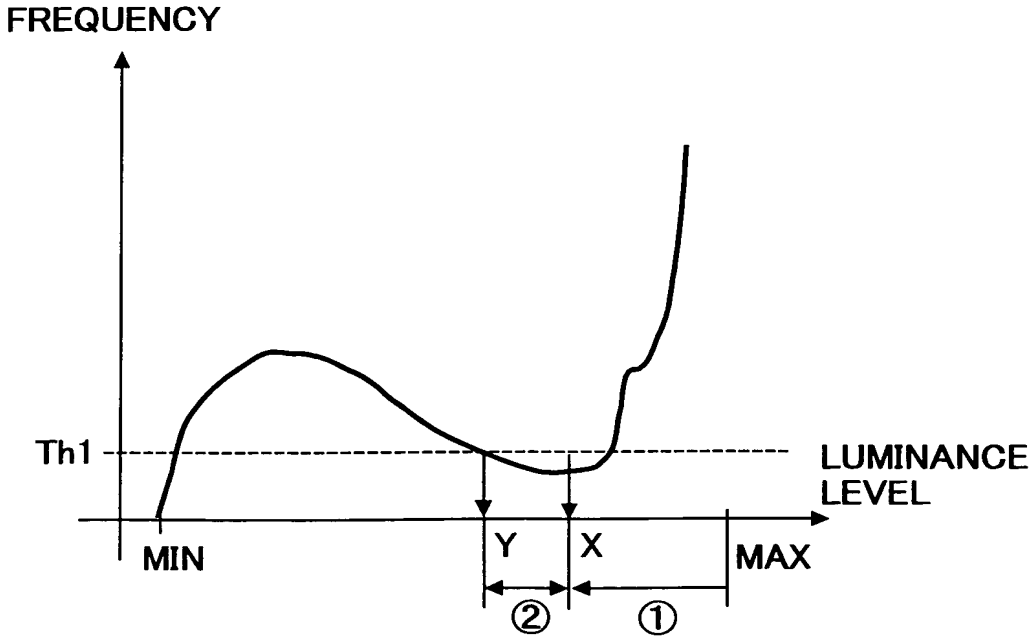


FIG. 8
IN TRUE BACKLIGHT CONDITION

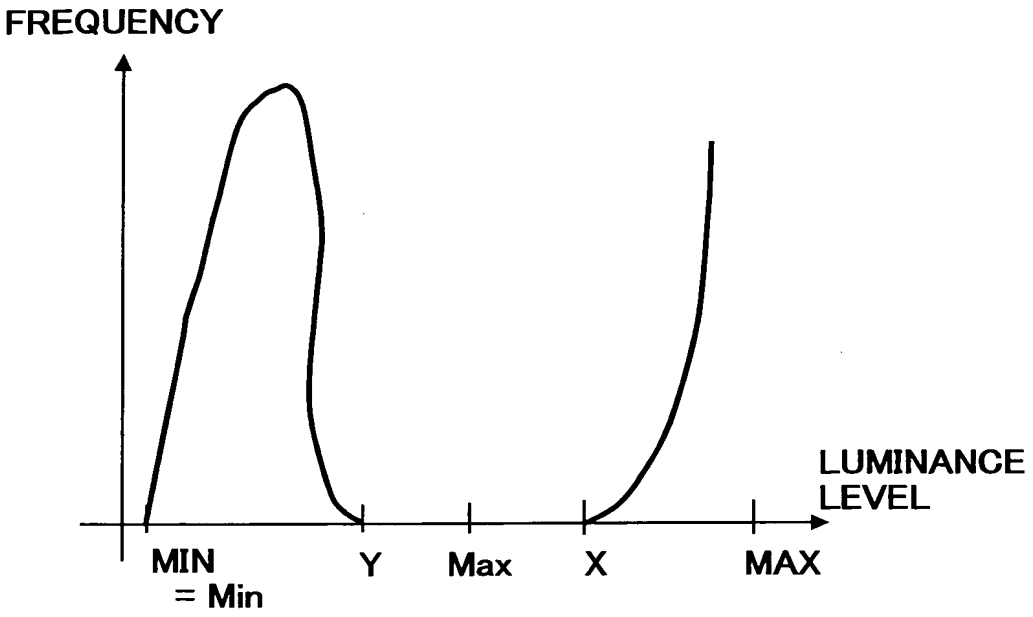


FIG. 9
IN HALATION CONDITION

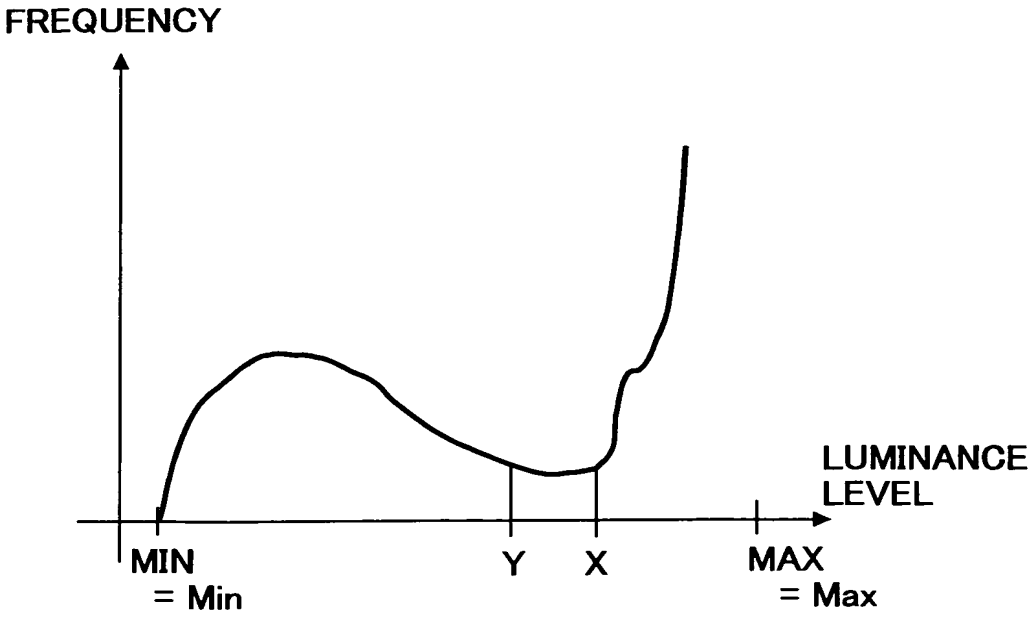


FIG. 10

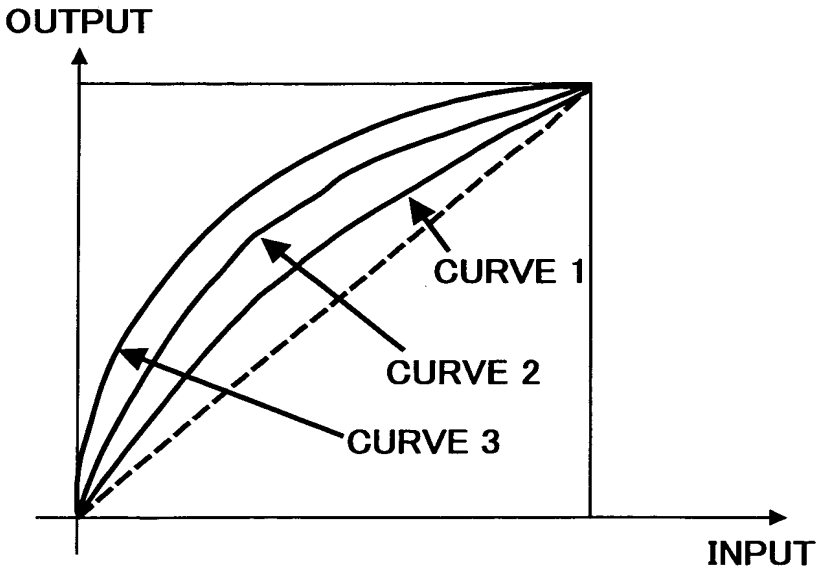


FIG. 11

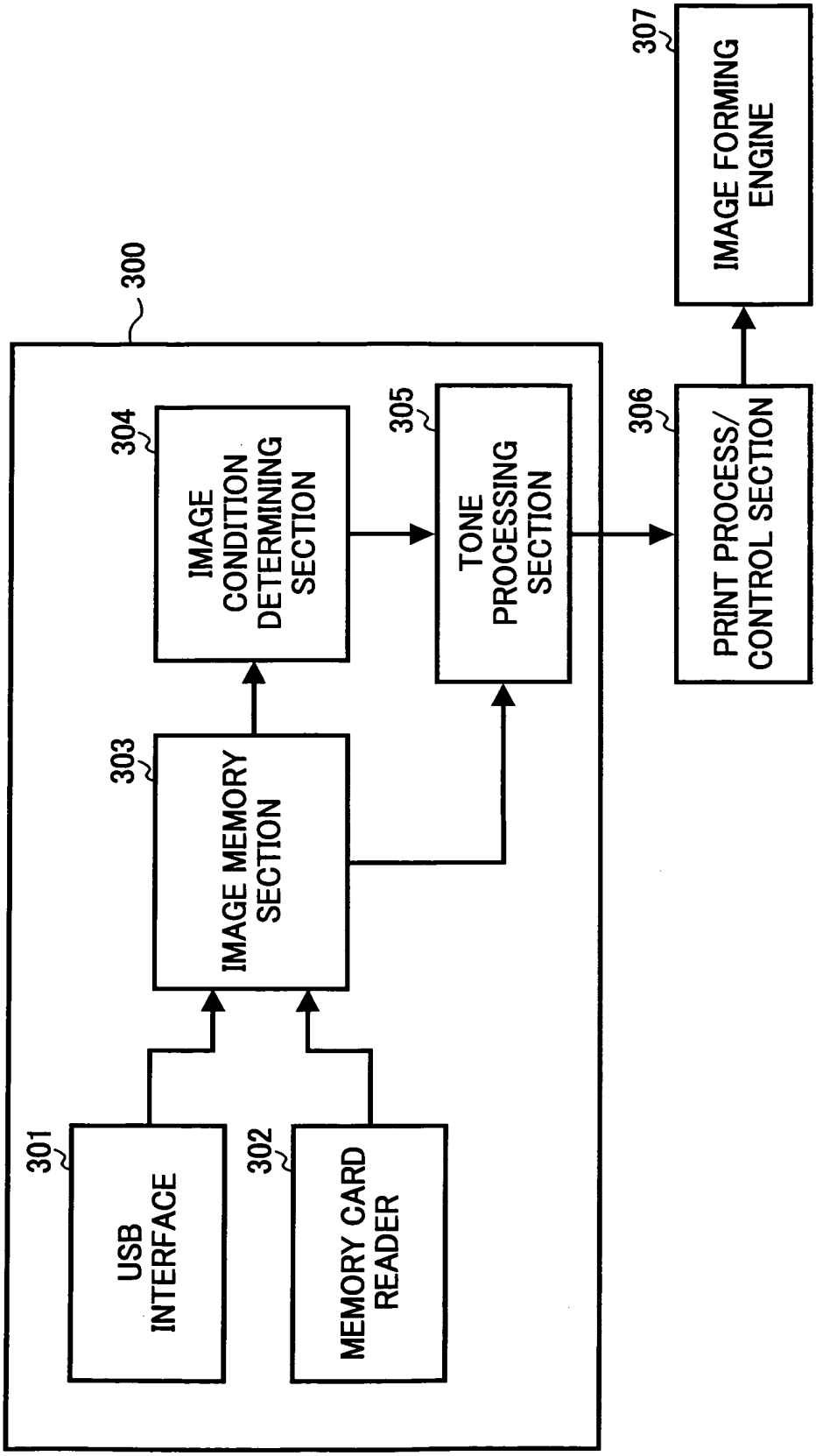
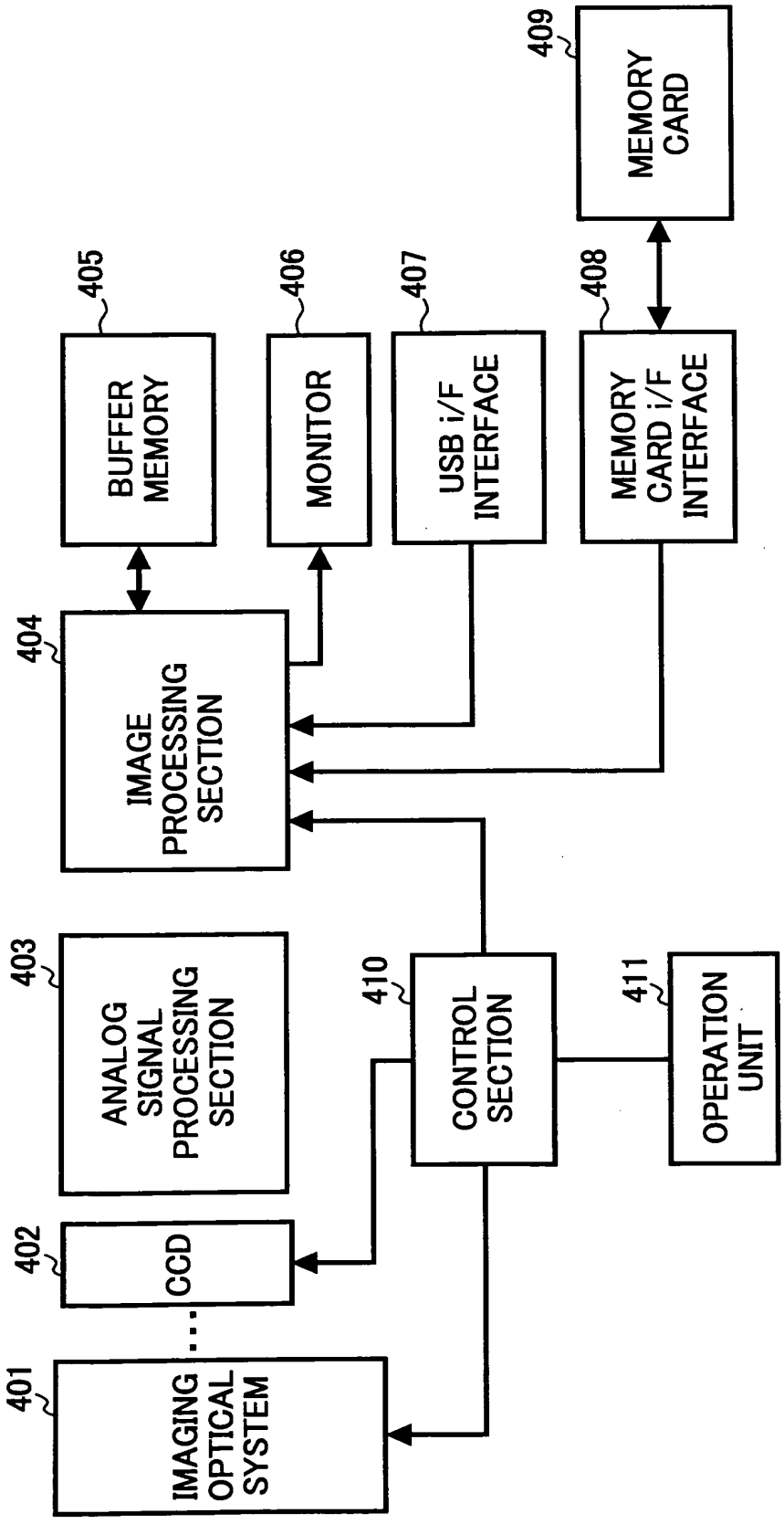

300
301
USB INTERFACE
302
MEMORY CARD READER
303
IMAGE MEMORY SECTION
304
IMAGE CONDITION DETERMINING SECTION
305
TONE PROCESSING SECTION
306
PRINT PROCESS/ CONTROL SECTION
307
IMAGE FORMING ENGINE

FIG. 12


401
IMAGING OPTICAL SYSTEM
402
CCD
403
ANALOG SIGNAL PROCESSING SECTION
404
IMAGE PROCESSING SECTION
405
BUFFER MEMORY
406
MONITOR
407
USB i/F INTERFACE
408
MEMORY CARD i/F INTERFACE
409
MEMORY CARD
410
CONTROL SECTION
411
OPERATION UNIT